

UNITED STATES PATENT AND TRADEMARK OFFICE

W

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/518,267	12/16/2004	Rob Van Dalen	NL 020591	3568
24737	7590 08/14/2006		EXAMINER	
PHILIPS INTELLECTUAL PROPERTY & STANDARDS P.O. BOX 3001 BRIARCLIFF MANOR, NY 10510			POTTER, ROY KARL	
			ART UNIT	PAPER NUMBER
			ART UNIT	PATER NUMBER
			2822	
			DATE MAILED: 08/14/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/518,267	DALEN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Roy K. Potter	2822				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	lely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	_•					
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-10</u> is/are pending in the application.						
· · · · · · · · · · · · · · · · · · ·	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠ Claim(s) <u>1-4 and 10</u> is/are allowed.						
6)⊠ Claim(s) <u>5-9</u> is/are rejected.	Claim(s) <u>5-9</u> is/are rejected.					
7)⊠ Claim(s) <u>5-9</u> is/are objected to.	· · · - · · ·					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examine	г.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
See the attached detailed Office action for a list	or the certified copies not receive	a.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PT						
Paper No(s)/Mail Date 6) Other:						

Application/Control Number: 10/518,267

Art Unit: 2822

DETAILED ACTION

Page 2

Claim Objections

Claims 6 – 9 are objected to under 37 CFR 1.75(c) as being in improper form

because a multiple dependent claim cannot depend on another multiple dependent

claim. See MPEP § 608.01(n). Accordingly, the claims 5 - 9 not been further treated on

the merits.

Claim 4 is dependent on claims 1 or 2; claim 6 is dependent on any of claims 1 -

4. Claims 5 and 7 – 9 are dependent on "any preceding claim"

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

`Claims 5 – 9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite

for failing to particularly point out and distinctly claim the subject matter which applicant

regards as the invention.

5

As described above, these claims are improperly multiply dependent and the

scope of what is being claimed cannot be determined.

Allowable Subject Matter

Claims 1 – 4 are allowed.

Application/Control Number: 10/518,267 Page 3

Art Unit: 2822

The prior art does not teach or suggest the surface implants is a second conductivity type along both sides of the edge termination trenches adjacent to the first surface.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Nemoto et al., U.S. Patent No. 6670650, discloses a power semiconductor rectifier with ring shaped trenches. However, there is no disclosure or suggestion of surface implants parallel to these trenches.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roy K. Potter whose telephone number is 308 - 4106.

The examiner can normally be reached on M-F.

Application/Control Number: 10/518,267 Page 4

Art Unit: 2822

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000....

Roy K Potter Primary Examiner Art Unit 2822